SAFETY DATA SHEET



Revision Date 23-Jan-2023

Version 1

1. IDENTIFICATION OF THE	SUBSTANCE/PREPARATION AND OF TH	E COMPANY/UNDERTAKING					
Product identifier							
Product Name	KC-644						
Other means of identification							
Product Code	20644						
Recommended use of the chemica							
Recommended Use	Cleaner and Sanitizer						
Uses advised against	Follow the directions for use on the label when apply	ing this product					
Details of the supplier of the safety		5					
Manufacturer Address							
Safe Foods Chemical Innovations							
1501 E. 8 th Street							
North Little Rock, AR 72114							
Emergency telephone number							
Company Phone Number	501-758-8500						
Emergency Telephone	Chemtrec 1-800-424-9300						
	2. HAZARDS IDENTIFICATION						
Classification							
OSHA Regulatory Status							
	is by the 2012 OSHA Hazard Communication Standard	· · · ·					
Serious eye damage/eye irritation		Category 1					
Skin corrosion/irritation		Category 2					
Acute toxicity - Oral		Category 4					
Label elements							
	Emergency Overview						
Danger							
Hazard statements							
Causes serious eye damage							
Causes skin irritation Harmful if swallowed							
Appearance Aqueous solution	Physical state Liquid	Odor Benzaldehyde					
Precautionary Statements - Preven	tion						
Wash face, hands and any exposed s							
Do not eat, drink or smoke when usin							
Wear protective gloves/eye protection							
Precautionary Statements - Respon							
Specific treatment (see Section 4 on							
	ter for several minutes. Remove contact lenses, if pres	ent and easy to do. Continue rinsing.					
Immediately call a poison center or de		Attention Take off conteminated					
clothing and wash before reuse	IF ON SKIN: Wash with plenty of water and soap. If skin irritation occurs: Get medical advice/attention. Take off contaminated						
	er or doctor if you feel unwell. Rinse mouth						
Precautionary Statements - Dispos	al						
Dispose of contents/container to an a							
Hazards not otherwise classified (H							
Not Applicable							
Other Information							
Very toxic to aquatic life with long la	sting effects						
-							

3.	COMPOSITION/INFORMATION ON I	NGREDIENTS					
	nemical Name	CAS No.	weight-%				
	Water	7732-18-5	88.5-89				
Alkyl (C14, 50%; C12, 40%; C16	-10%) Dimethyl Benzyl Ammonium Chloride	68424-85-1	4				
	nethyl Ammonium Chloride	32426-11-2	3				
	thyl Ammonium Chloride	5538-94-3	1.5				
Didecyl Dimethyl Ammonium Chloride 7173-51-5 1.5							
Ethyl Alcohol 64-17-5 1-1.5							
*The exact percentage (concentration) of composition has been withheld as a trade secret.							
	4. FIRST AID MEASURES						
First aid measures							
General advice	Have the product container, label, or SDS with	th you when calling a po	bison control center or				
	doctor or going for treatment.						
Eye contact	Hold eye open and rinse slowly and gently w						
	lenses, if present, after first 5 minutes, then o	continue rinsing eye. Ca	II a poison control cent				
	or doctor for treatment advice.						
Skin contact	Take off contaminated clothing. Rinse skin ir		f water for 15-20				
	minutes. Call a poison control center or doct						
nhalation	Move person to fresh air. If person is not bre						
	artificial respiration, preferably by mouth-to-r	nouth, if possible. Call a	poison control center				
	doctor for treatment advice.						
ngestion	Call a poison control center or doctor immed						
	glass of water if able to swallow. Do not indu						
	control center or doctor. Do not give anything	g by mouth to an uncons	scious person.				
Most important symptoms and e							
Symptoms	See Section 11 for symptom information.						
	dical attention and special treatment needed						
Note to physicians	Probable mucosal damage may contraindica	te the use of gastric lav	age.				
	5. FIRE-FIGHTING MEASUR	ES					
Suitable extinguishing media							
Dry chemical. Water spray (fog). C	Carbon dioxide (CO2). Foam.						
Unsuitable extinguishing me	edia No information available.						
Specific hazards arising from th	e chemical						
No information available.							
Hazardous combustion proc	lucts Toxic hydrogen chloride fumes. Carbo	on oxides. Nitrogen oxid	es (NOx).				
Explosion data		C C					
Sensitivity to Mechanical Im	pact None.						
Sensitivity to Static Dischar							
Protective equipment and preca							
	breathing apparatus pressure-demand, MSHA/	NIOSH (approved or equ	uivalent) and full				
protective gear. Cool containers w	ith flooding quantities of water until well after fire	e is out. Non-combustibl	e, substance itself doe				
	n heating to produce corrosive and/or toxic fume						
	6. ACCIDENTAL RELEASE MEA	SURES					
	e equipment and emergency procedures						
Personal precautions	Use personal protection recommended in Se	ection 8. Wear respirator	. Ensure adequate				
	ventilation, especially in confined areas.	•					
For emergency responders	Isolate area. Keep unnecessary personnel a	way.					
Environmental precautions	-						
Environmental precautions	Prevent entry into waterways, sewers, baser	nents or confined areas	. See Section 12 for				
	additional ecological information.						
Methods and material for contai							
Methods for containment	Prevent further leakage or spillage if safe to						
Methods for cleaning up	Small spills may be mopped up, flushed awa	y with water or absorbe					
	material and incinerated. For large spills: Co	ntain and collect spillage	e with non-combustible				
absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container							
	absorbent material, (e.g. sand, earth, diaton						
	for disposal according to local / national regu		, .				
		llations.					

Advice on safe handling	Use personal protection reco	ommended in Section 8. Avoid co	ntact with skin, eves or clothing.				
	Use only in well-ventilated areas. Avoid breathing vapors or mists. Wash thoroughly after						
		handling. Handle in accordance with good industrial hygiene and safety practice.					
Conditions for safe storage, incl		5 ,5	51				
Storage Conditions		ed in a dry, cool and well-ventilate	ed place. Keep from freezing.				
C		Store only in original container. Keep this product under locked storage sufficient to make it					
		ersons unfamiliar with its proper ι					
Incompatible materials	Strong oxidizing agents. Red						
8. EXPOSURE CONTROLS/PERSONAL PROTECTION							
Control parameters			N				
Exposure Guidelines							
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH				
Ethyl Alcohol	STEL: 1000 ppm	TWA: 1000 ppm, 1900 mg/m ³	IDLH: 3300 ppm				
64-17-5	0	·····	TWA: 1000 ppm, 1900 mg/m ³				
Appropriate engineering control	S		··· ·				
Engineering Controls	Showers, eyewash stations,	ventilation system.					
Individual protection measures,							
Eye/face protection	Splash proof chemical gogg						
Skin and body protection		[#] gloves or rubber gloves. Wear s	uitable protective clothing and				
	rubber boots.	0					
Respiratory protection	When fogging or when expo	sure limits are exceeded or if irrit	ation is experienced,				
		piratory protection should be wor					
		with current local regulations.					
General Hygiene Considerations		exposed skin thoroughly after han	dling. Wash contaminated				
		euse. Do not eat, drink or smoke v					
	9. PHYSICAL AND CH	EMICAL PROPERTIES					
Information on basic physical an							
Physical state	Liquid						
Appearance	Aqueous solution	Odor	Benzaldehyde				
Color	Clear, Yellow	Odor threshold	No information available				
Property	Values	Remarks • Metho	d				
pH	7	±1 @ 21°C					
Melting point/freezing point	1.7 °C / 35 °F	0					
Boiling point / boiling range	No information available						
Flash point	> 93.3 °C / >200 °F						
Evaporation rate	No information available						
Flammability (solid, gas)	No information available						
Flammability Limit in Air							
Upper flammability limit:	No information available						
Lower flammability limit:	No information available						
Vapor pressure	No information available						
Vapor density	No information available						
Specific Gravity	0.986 g/cc						
Water solubility	Soluble in water						
Solubility in other solvents	No information available						
Partition coefficient	No information available						
Autoignition temperature	No information available						
Decomposition temperature	No information available						
Kinematic viscosity	No information available						
Dynamic viscosity	No information available						
Explosive properties	No information available						
Oxidizing properties	No information available						
VOC Content (%)	1.4% (0.115 lbs/gal)						

10. STABILITY AND REACTIVITY

 Reactivity

 No data available

 Chemical stability

 Stable under recommended storage conditions.

 Possibility of Hazardous Reactions

 None under normal processing.

 Conditions to avoid

 None known.

Incompatible materials
Strong oxidizing agents. Reducing agent.
Hazardous Decomposition Products
Toxic hydrogen chloride fumes. Carbon oxides. Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

	11. TOXI	COLOGICA	AL INFORMAT	ION		
Information on likely rou	tes of exposure					
Product Information						
Inhalation				y cause irritation of resp	iratory system. Vapor	
		may be irritating to eyes, nose, throat, and lungs.				
Eye contact			eyes. Corrosive to	the eyes and may caus	e severe damage	
		including blindness.				
Skin Contact				on and possible burns.		
Ingestion				n in mouth, throat, abdo		
				ng the ability to breathe	, circulatory shock,	
	convulsions v	when swallowe				
Chemical Name			Oral LD50	Dermal LD50	Inhalation LC50	
68424-85-1	16-10%) Dimethyl Benzyl Amn	nonium Chloride			-	
Octyl Decyl Dimethyl Ammoni 32426-11-2			= 238 mg/kg	= 3342 mg/kg	-	
Dioctyl Dimethyl Ammonium (5538-94-3			= 238 mg/kg	= 3342 mg/kg	-	
Didecyl Dimethyl Ammonium 7173-51-5	Chloride		= 84 mg/kg (Rat		, 	
Ethyl Alcohol 64-17-5			= 7060 mg/kg (Ra	t) -	= 124.7 mg/L(Rat)4	
Information on toxicolog	ical effects					
Symptoms	No informatio	n available.				
Delayed and immediate e	effects as well as chronic	effects from	short and long-t	erm exposure		
Sensitization	No informatio					
Germ cell mutagenicity	No informatio	n available.				
Carcinogenicity	Ethanol has b	been shown to	be carcinogenic i	n long-term studies only	when consumed as	
	alcoholic bev		· ·			
Chemical Name	ACGIH	IAR	C	NTP	OSHA	
Ethyl Alcohol - 64-17-5	A3	-		Known	Х	
	nce of Governmental Industrial I	Hygienists)				
A3 - Animal Carcinogen NTP (National Toxicology F	Program)					
Known - Known Carcinogen						
	y and Health Administration of t	he US Departmer	nt of Labor)			
X - Present Reproductive toxicity	No informatio	n availahla				
STOT - single exposure	No informatio					
STOT - repeated exposure						
Aspiration hazard	No informatio					
	oxicity - Product Inform					
Unknown Acute Toxicity			of ingredient(s) of	unknown toxicity		
	calculated based on cha					
Oral LD50	862.00 mg/kg					
Dermal LD50	34,259.00 mg					
Mist	9,976.00 mg/					
- WIISt	. 0					
Eastaviaity	12. EC	OLOGICAL	. INFORMATIC	N .		
Ecotoxicity Vory toxic to aquatic life wi	ith long lasting offects					
Very toxic to aquatic life wi	sists of components(s) of u	inknown haza	rde to the equation	onvironmont		
Chemical Name	13400 - 15100: 96 h Pimeph	Fish	ng/L CEO flow there		stacea	
Ethyl Alcohol 64-17-5	12.0 - 16.0: 96 h Oncor				iphnia magna mg/L LC5 iia magna mg/L EC50	
U -1 -1/ - J	100: 96 h Pimephal	es promelas mo	1/L LC50 static	2: 48 h Danhnia ma	igna mg/L EC50 Static	
Persistence and degrada					<u></u>	
No information available.	<u></u>					
Rioaccumulation						

Bioaccumulation

Chemical Name	Partition coefficient				
Ethyl Alcohol - 64-17-5	-0.32				

Mobility			
Soluble in water.			
Other adverse effects	No information available		
	13. DISPOSAL C	ONSIDERATIONS	
Waste treatment methods			
Disposal of wastes	Disposal should be in accordance	e with applicable regional, nation	al and local laws and regulations.
Contaminated packaging	Dispose of in accordance with fe	deral, state and local regulations	
	nical Name		dous Waste Status
Ethyl Al	cohol - 64-17-5	Toxic	Ignitable
	14. TRANSPOR	T INFORMATION	
DOT			
UN/ID No.	1903		
Proper shipping name	Disinfectants, liqu	uid, corrosive, n.o.s. (contains qu	aternary ammonium compounds)
Hazard Class	8		
Packing Group	II		
Emergency Response G	uide Number 153		
	15. REGULATOR	RY INFORMATION	
International Inventories	_		
TSCA	Complies		
DSL/NDSL	Complies		
EINECS/ELINCS	Complies		
Legend:			
	es Control Act Section 8(b) Inventory stances List/Non-Domestic Substances List y of Existing Chemical Substances/European	List of Notified Chemical Substances	
US Federal Regulations	,		
SARA 313			
Section 313 of Title III of the S	Superfund Amendments and Reaut		
Chemicals which are subject t	o the reporting requirements of the	Act and The 40 of the Code of F	euerai Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

Ethyl alcohol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

,	,		 1	5	5
	Cher	nical Name		California P	roposition 65
	Ethyl Ale	cohol - 64-17-5		Carcinogen	Developmental

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethyl Alcohol - 64-17-5	Х	X	Х

U.S. EPA Label Information

EPA Pesticide Registration Number 63679-2

16. OTHER INFORMATION

NFPA	Health hazards 3	Flammability 0	Instability 0	Physical and Chemical Properties			
				Corrosive			

<u>HMIS</u>	Health hazards	3	Flammability 0	Physical hazards	0	Personal protection X – Consult your supervisor or SOP for special handling instructions.
Prepared By Issue Date Revision Date Version			Technical Department 30-Nov-2018 23-Jan-2023			
Revision Note			Company name update	9.		

<u>Disclaimer</u>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The health hazards given on this SDS apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of exposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.

End of Safety Data Sheet